

CLAIMS

[1] A flat panel display spacer having a sintered body containing Al₂O₃, TiC, MgO, and TiO₂; wherein the sintered body includes 35 to 55 wt % of MgO with respect to the total weight of Al₂O₃, TiC, MgO, and TiO₂.

5

[2] A flat panel display spacer according to claim 1, wherein the sintered body contains 2.0 to 3.0 wt % of TiO₂ with respect to the total weight of Al₂O₃, TiC, MgO, and TiO₂.

[3] A flat panel display spacer according to claim 1 or 2, wherein the sintered body contains 7.0 to 8.0 wt % of TiC with respect to the total weight of Al₂O₃, TiC, MgO, and TiO₂.

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[4] A method of manufacturing a flat panel display spacer, the method comprising the steps of:

15

mixing powders of Al₂O₃, TiC, MgO, and TiO₂ such that the MgO powder is 35 to 55 wt% with respect to the total weight of powders of Al₂O₃, TiC, MgO, and TiO₂, so as to yield a mixture; and firing the mixture, so as to yield a sintered body.

20

[5] A flat panel display comprising:
a backplate including a cathode structure;
a faceplate including a fluorescent pixel area; and
a flat panel display spacer interposed between the backplate and the faceplate and formed from a sintered body containing Al₂O₃, TiC, MgO, and TiO₂, wherein the sintered body includes 35 to 55 wt % of MgO with respect to the total weight of Al₂O₃, TiC, MgO, and TiO₂.